

# Water Pressure Zone Modifications

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Village of Los Lunas  
Council Meeting – October 5, 2017



*Small Community. Big Possibilities*

**MOLZENCORBIN**

# Issues Identified

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## Existing System Characteristics

- Existing infrastructure may experience lower pressures than desired during peak demand hours.
- Highest elevations in the middle zone (Los Cerritos Development and north) are most impacted by pressure concerns.



# Los Lunas Municipal Code - *Supplement 23*

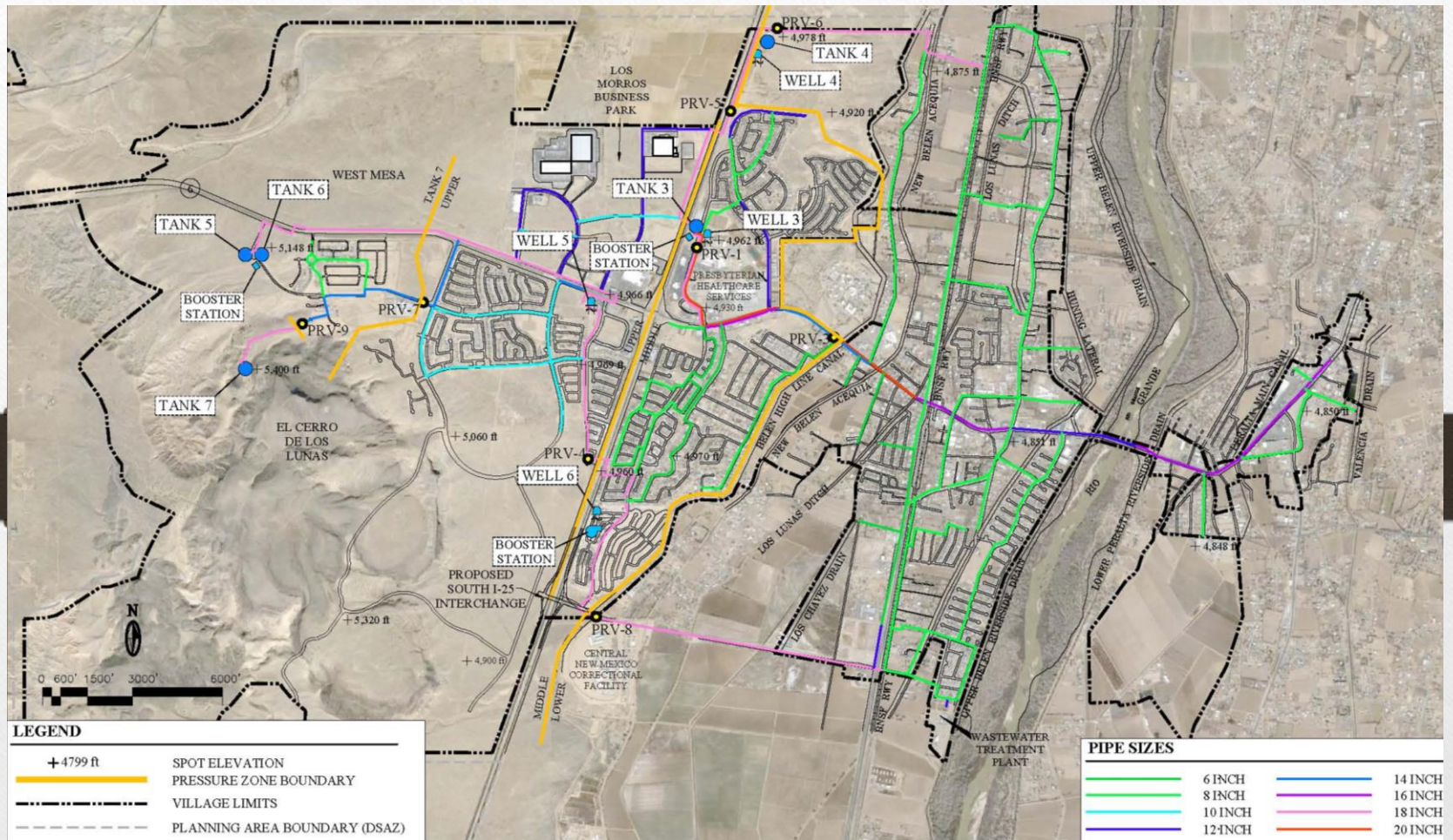
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Ordinance No. 408, passed July 28, 2016

## **13.04.150 A. - Service connection**

*A normal pressure within the range of fifty to one hundred twenty-five pounds can ordinarily be made available in areas contiguous to existing lines and at the pressure indicated for normal operations within established pressure zones. Any customer requiring a pressure different than the supplied pressure will need to provide the appropriate pressure regulation device.*









# Options Considered

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## **Adjust PRV Settings for all of Middle Pressure Zone**

- Water pressures go up for all customers in middle zone
- Benefits customers at higher elevations
- Disadvantage to customers at lower elevations (individual PRVs)
- Potential increase in waterline breaks

## **New Pressure Zone**

- Improves water source of supply in the areas east of I-25 (PRV 1, 4, and 5)
- Raises pressure for existing residents north of Highline and for future development north of Los Cerritos.



# Exist. Conditions

HGL

Tanks 5 & 6  
Pressure  
Zone

PRV 1 & 4

HGL

Middle Pressure Zone

I-25



Los Cerritos  
~58psi



Carissa Rd  
~99psi

BHL  
Canal



HGL

Tanks 5 & 6  
Pressure  
Zone

PRV 1 & 4  
Set to higher pressure

# Option 1

HGL

Middle Pressure Zone

I-25



Los Cerritos  
~75psi



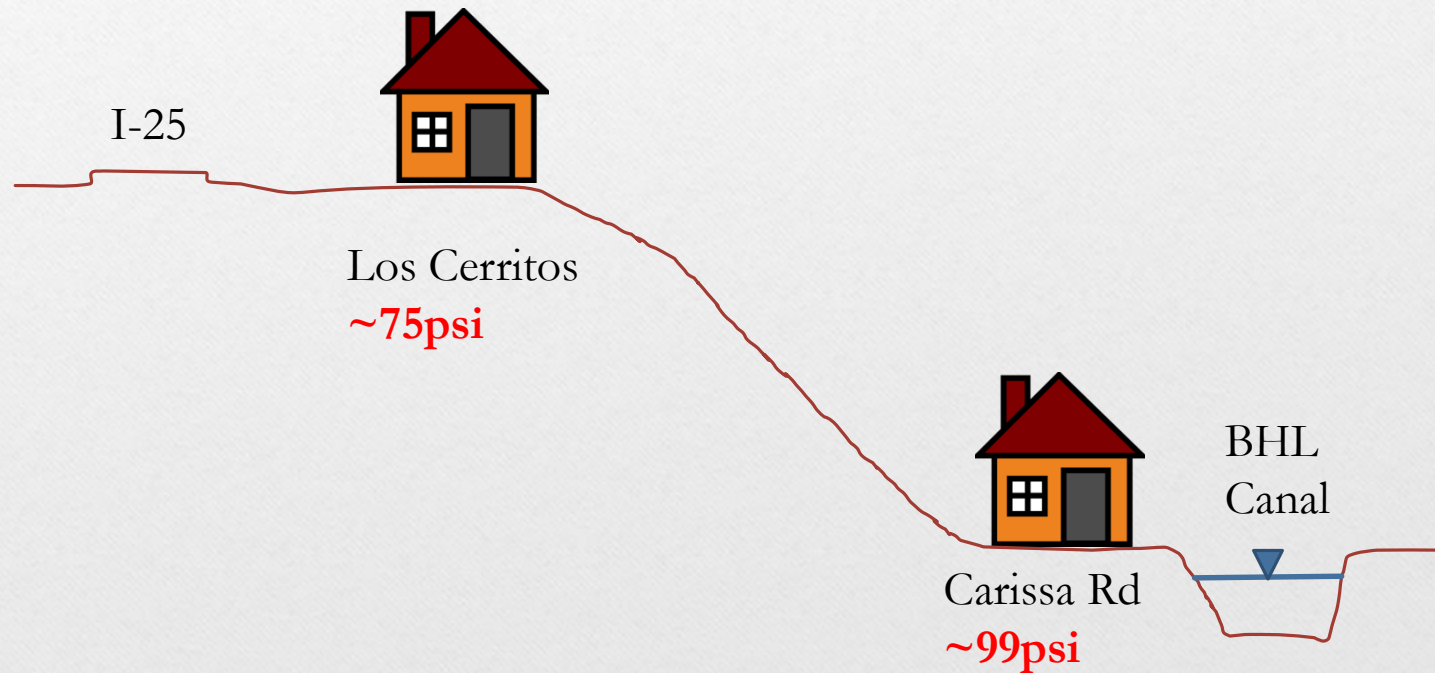
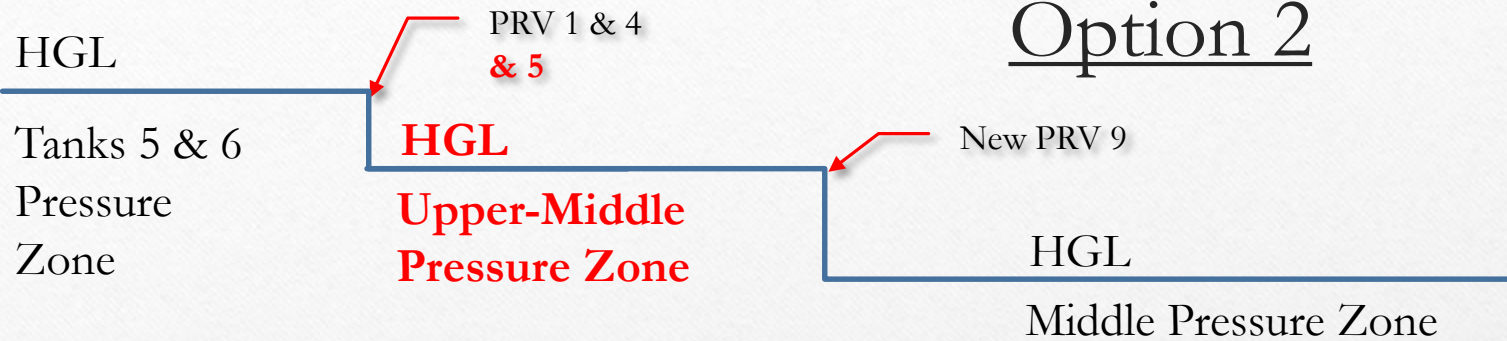
Carissa Rd  
~116psi

BHL  
Canal





## Option 2



NEW  
PIPELINE  
EXTENSION

CLOSE ZONE  
VALVE

NEW  
PRV/PSV  
STATION



SCALE: 1" = 500'



# Conclusion

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## Improvements Anticipated

- Increased supply of water to Los Cerritos Subdivision with additional supply to future development from High pressure zone and Middle pressure zone.
- Increased pressures to the new pressure zone while maintaining consistent pressure to low elevation customers.
- Increased fire flow capabilities for the area.

# Questions?

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